

Fig.1

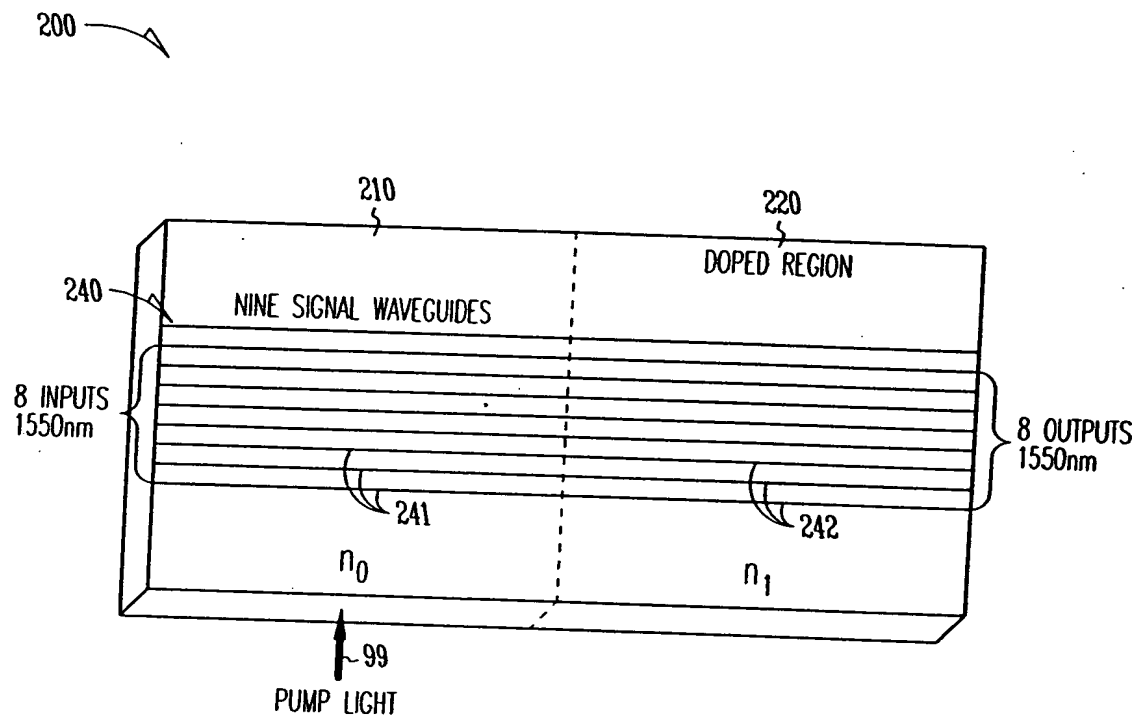


Fig.2

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300

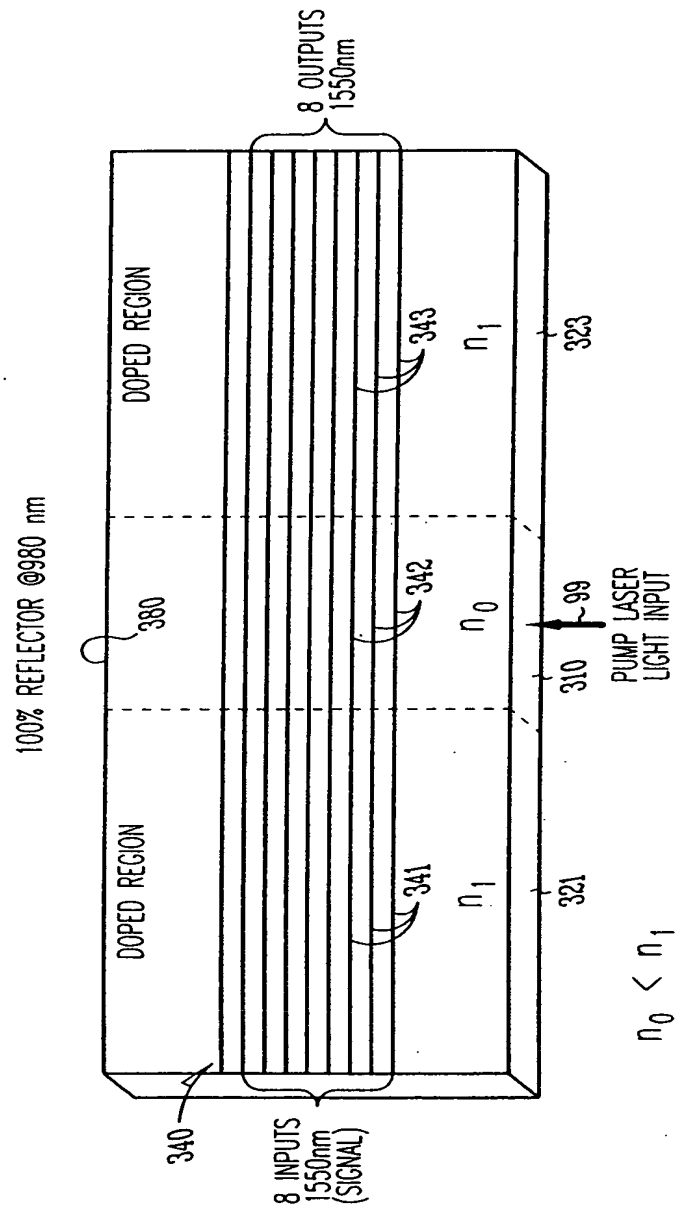
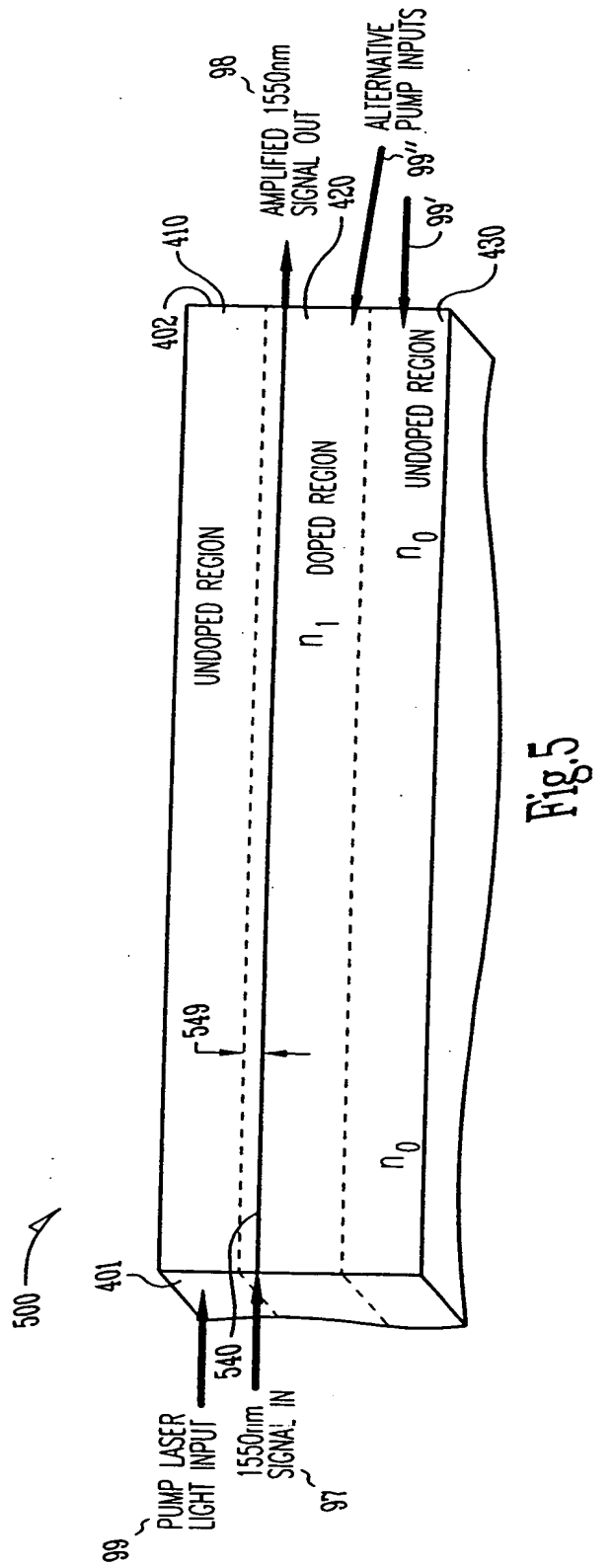
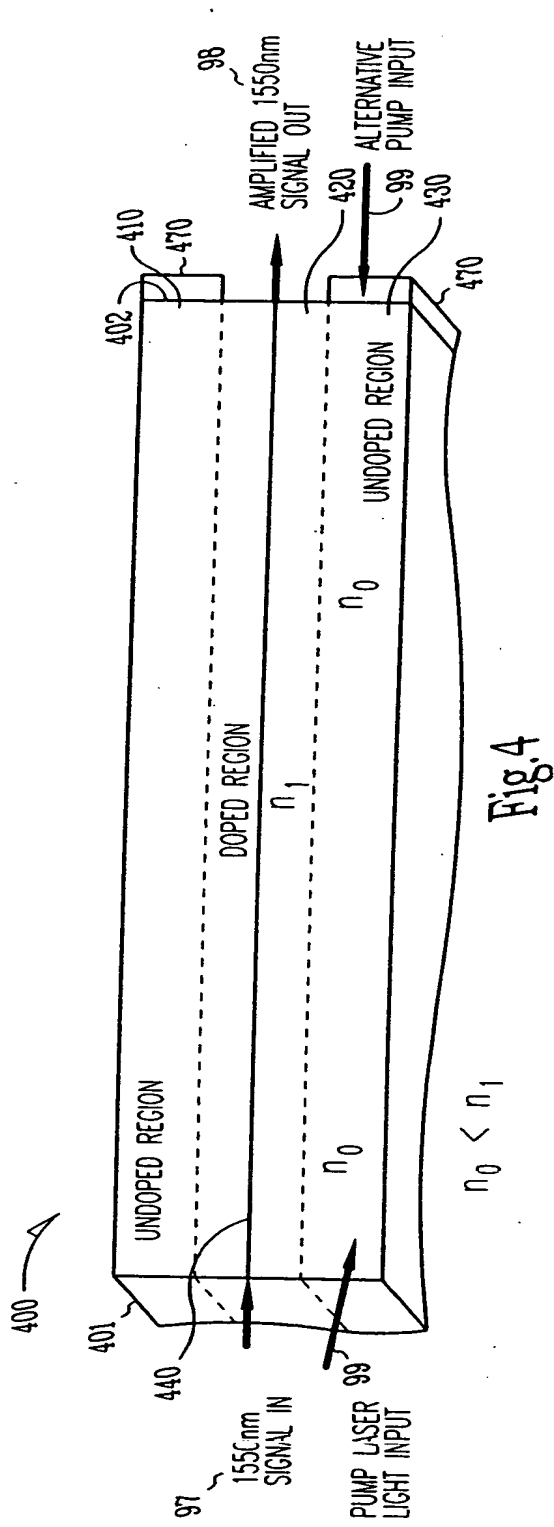
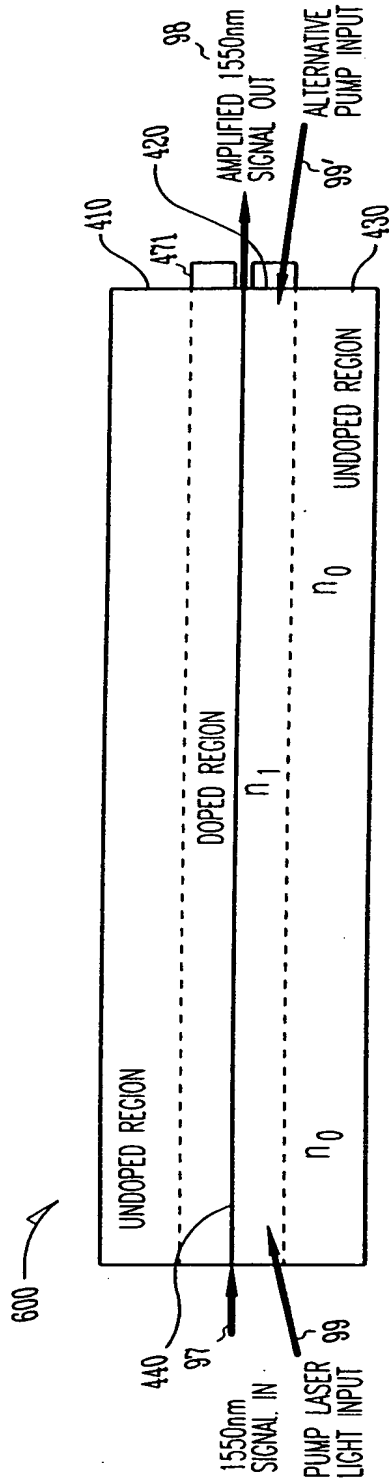


Fig.3





$$n_0 < n_1$$

Fig.6

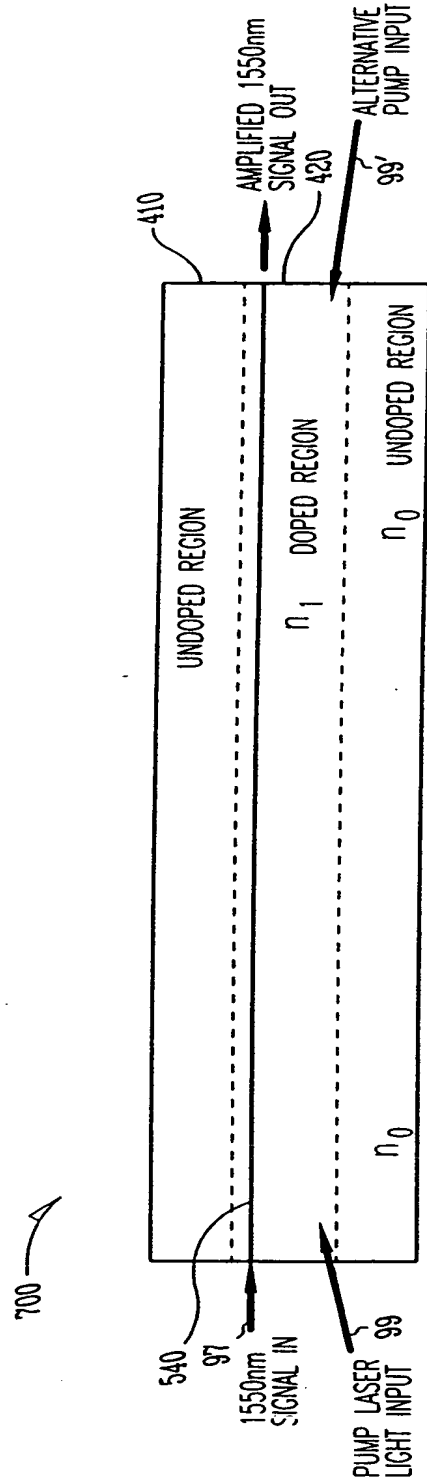


Fig.7

205060 205060

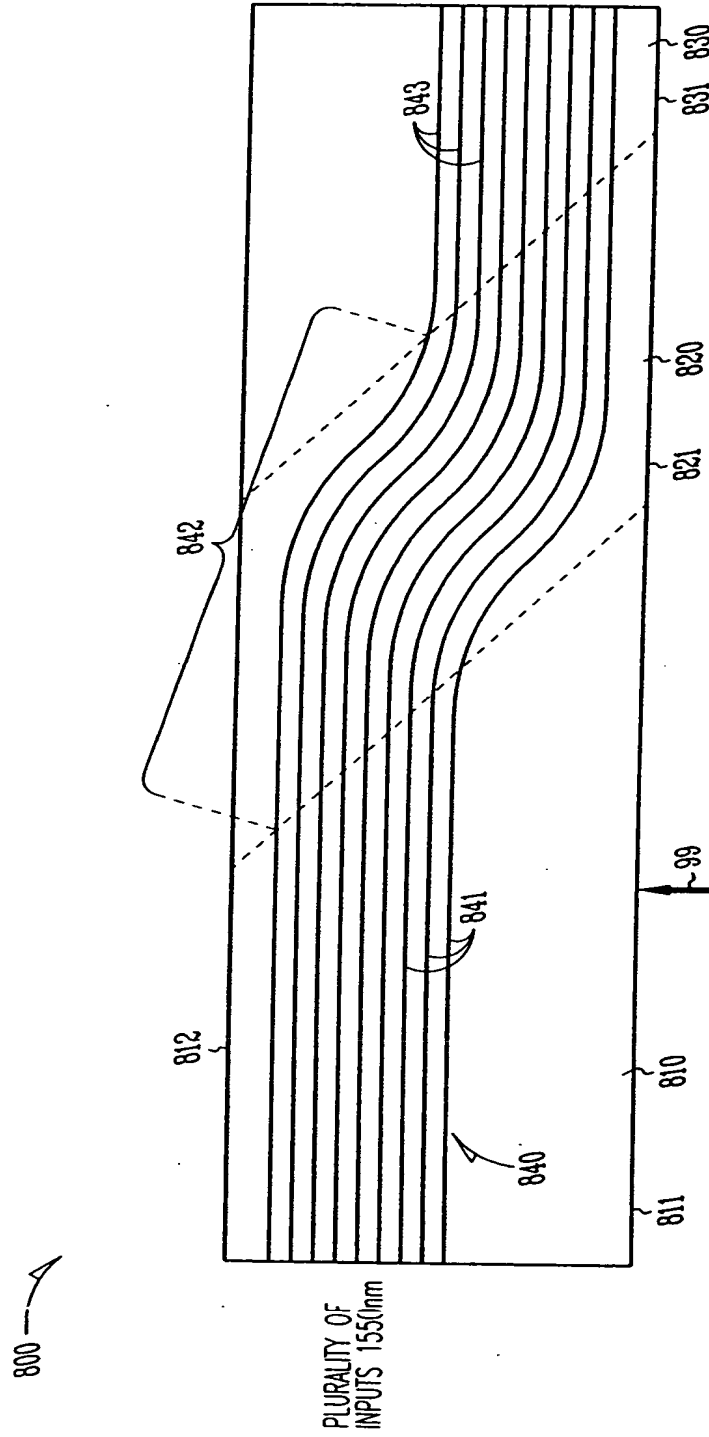


Fig.8

900 --->

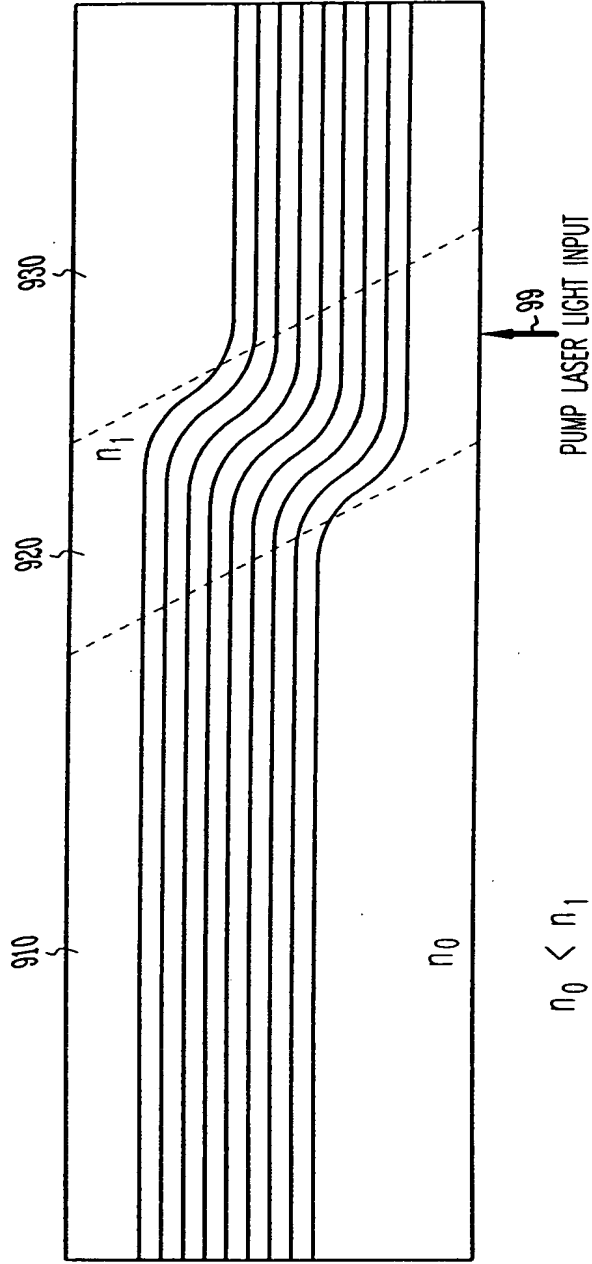


Fig.9.

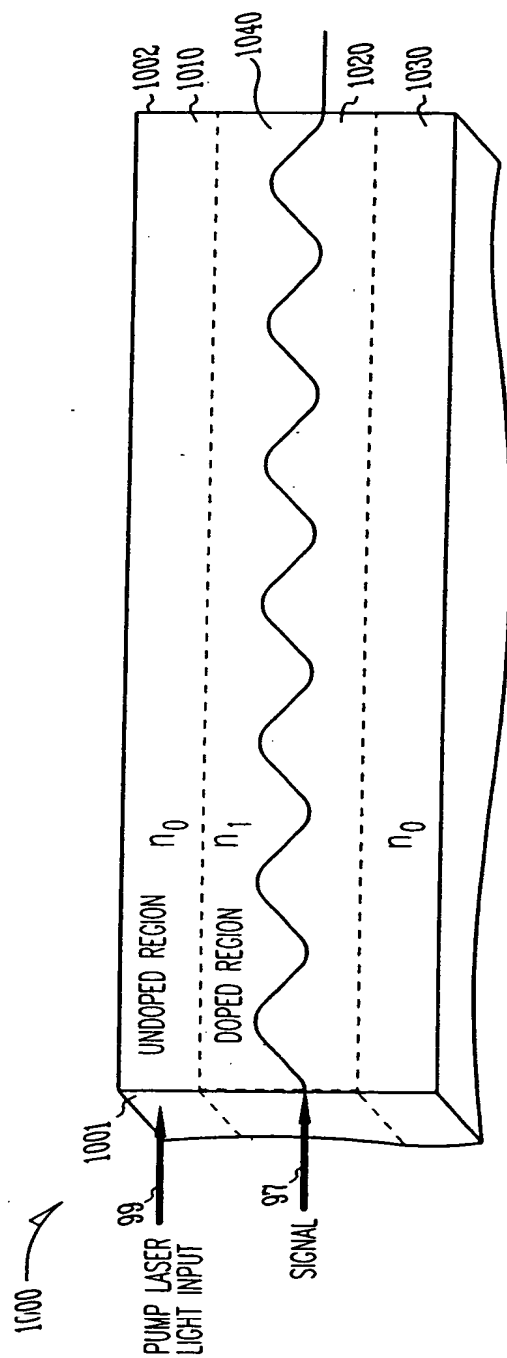


Fig.10

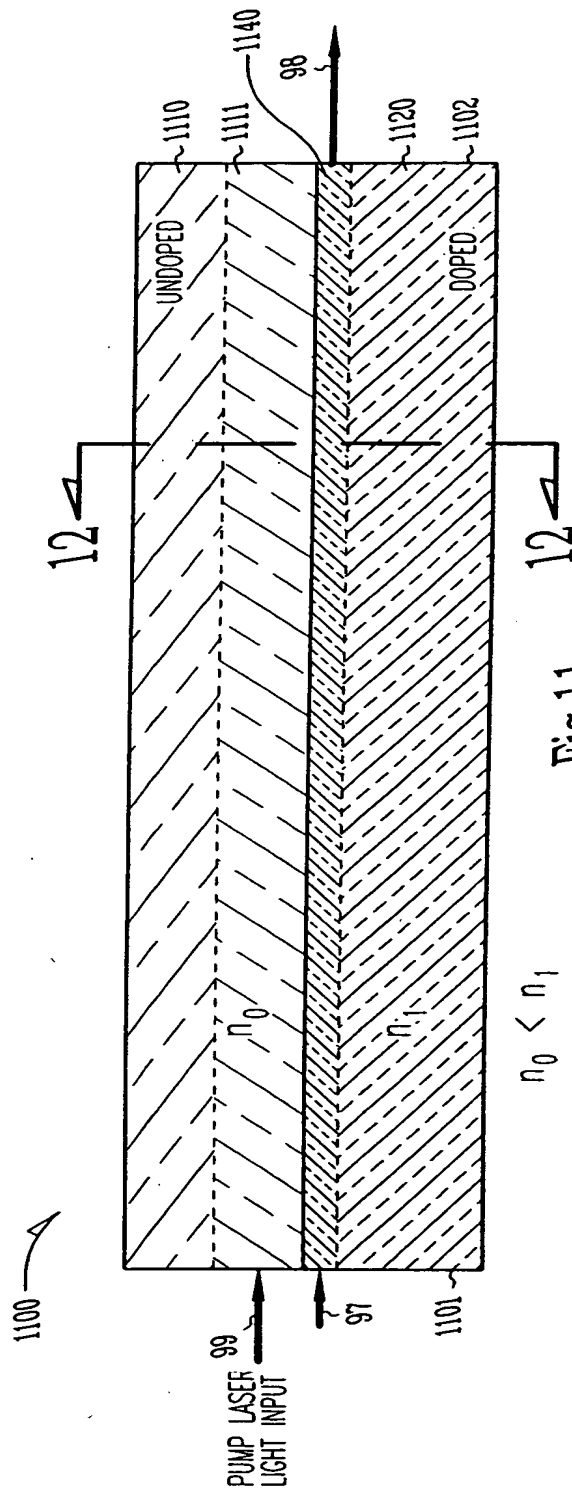


Fig. 11

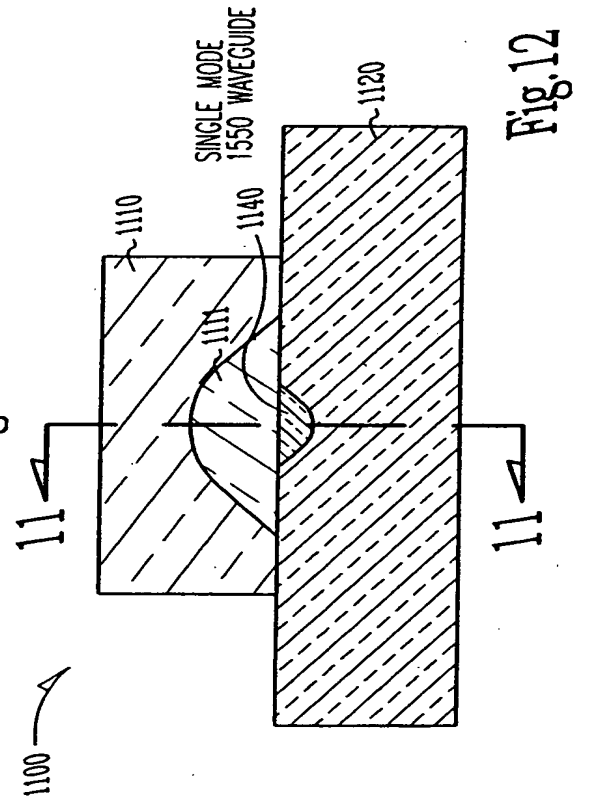


Fig. 12

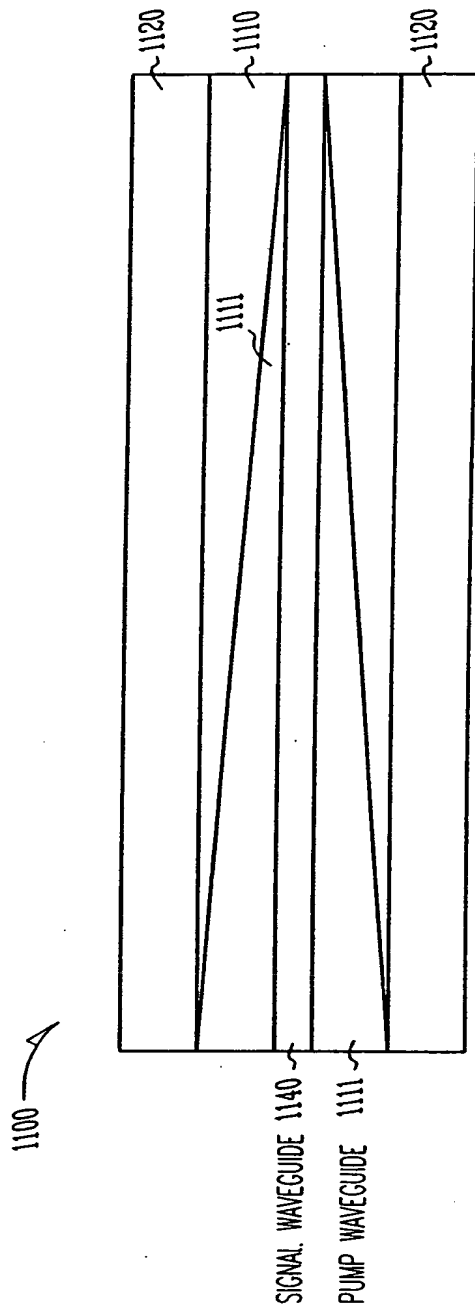


Fig 13

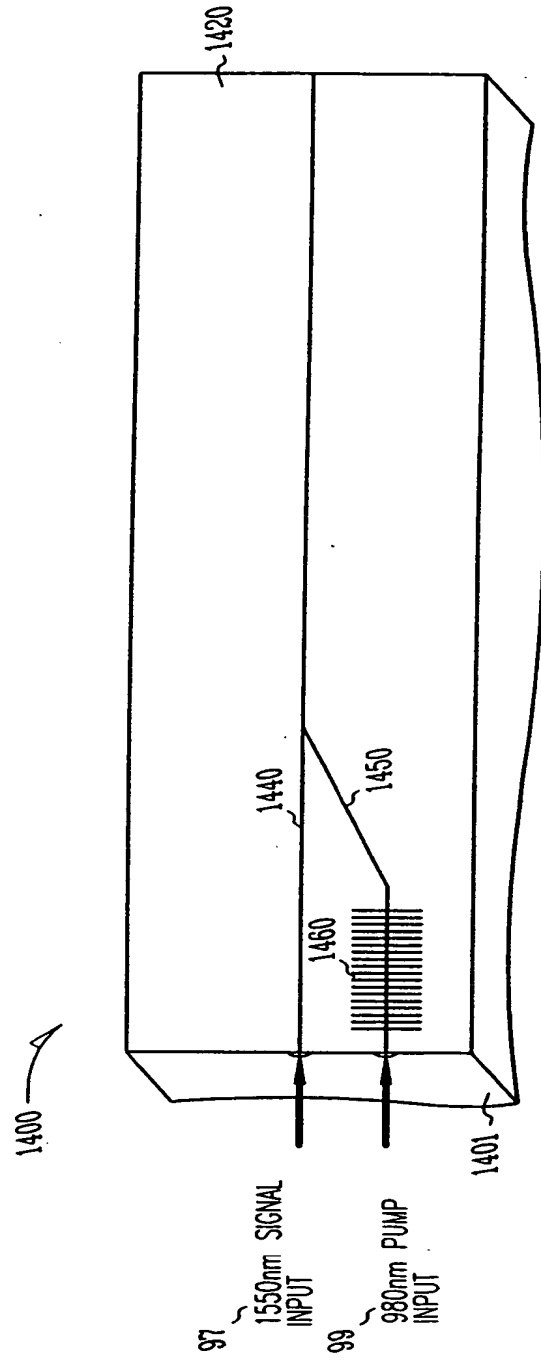


Fig. 14

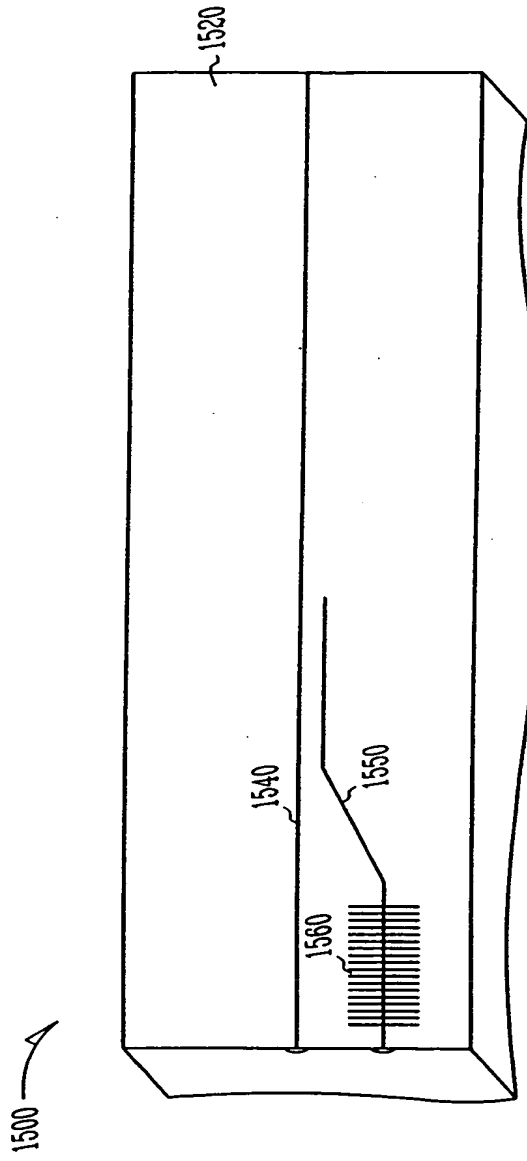


Fig. 15

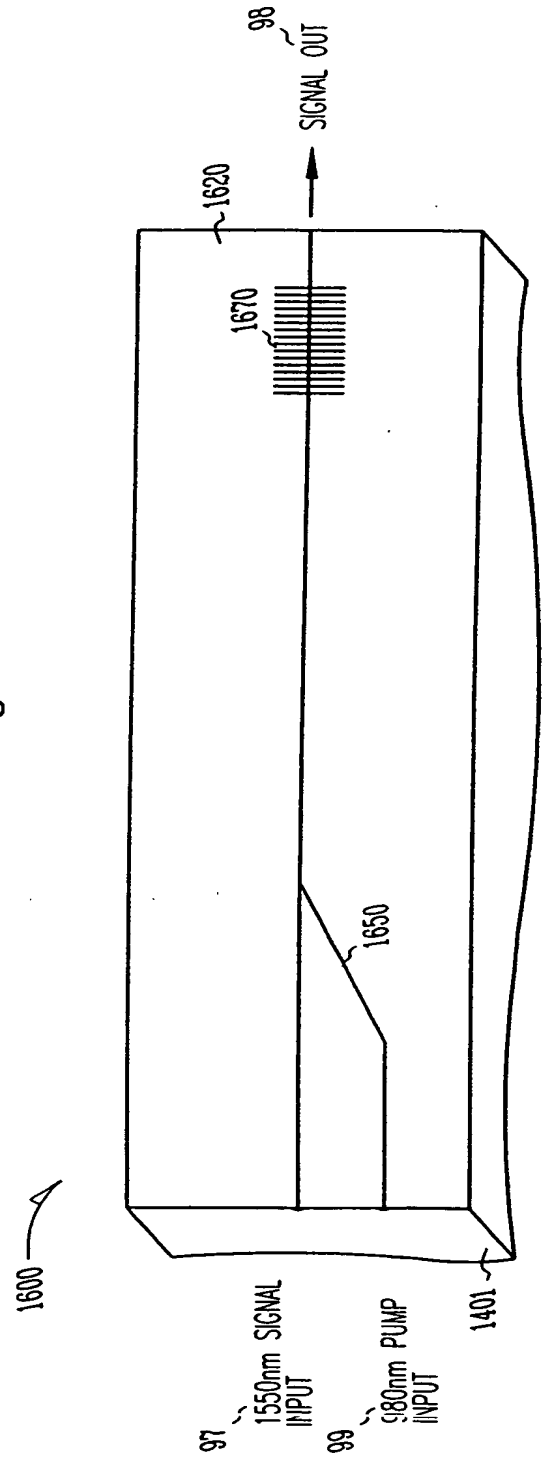
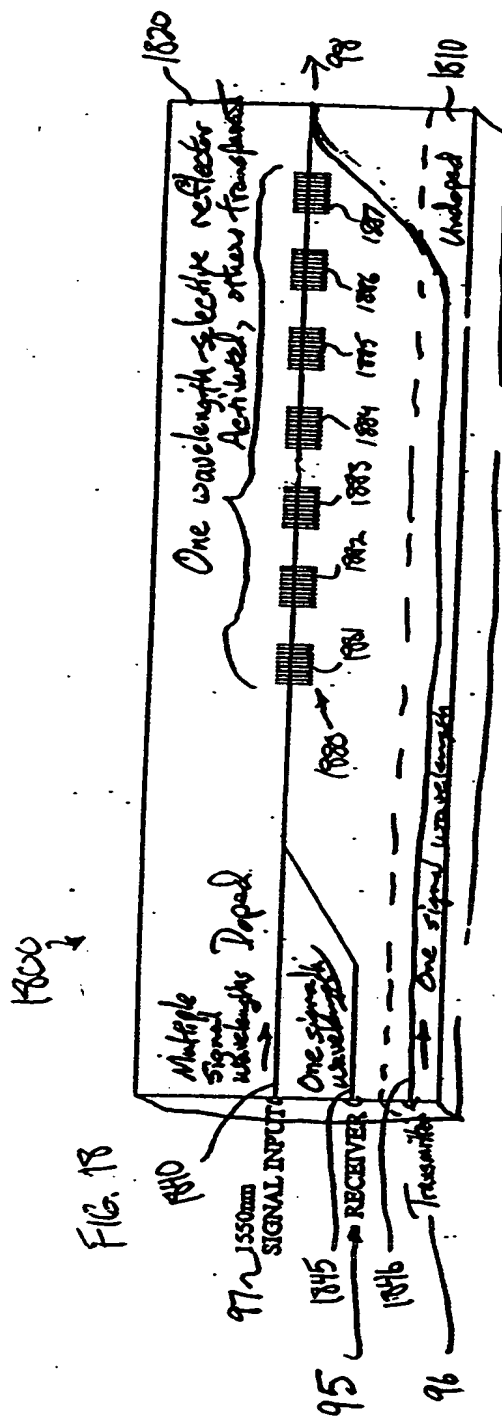
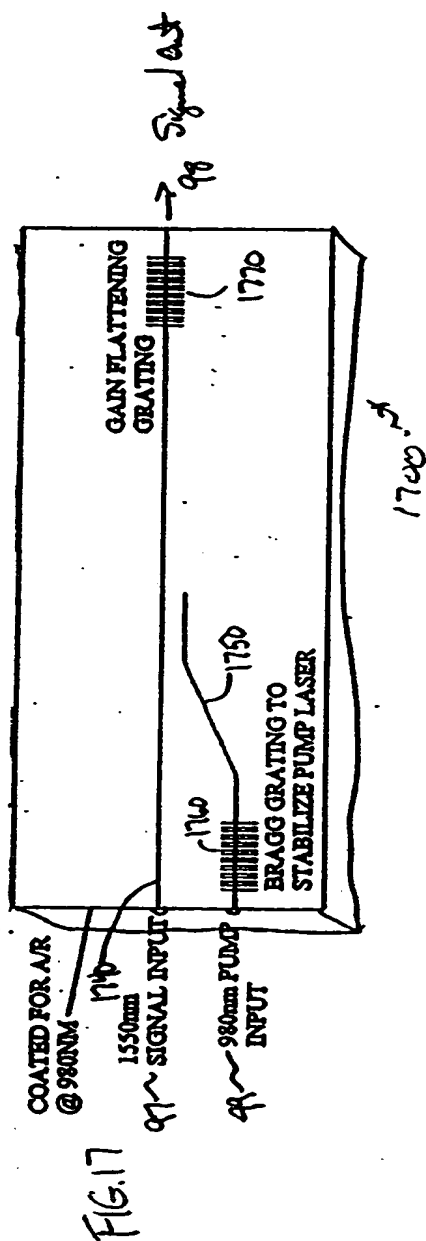
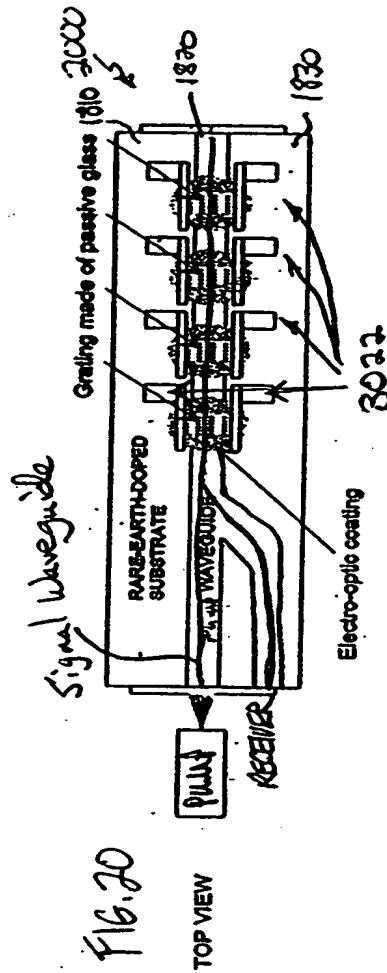
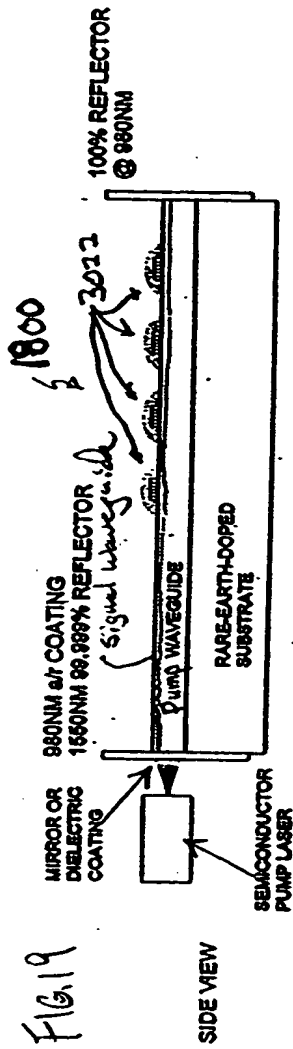
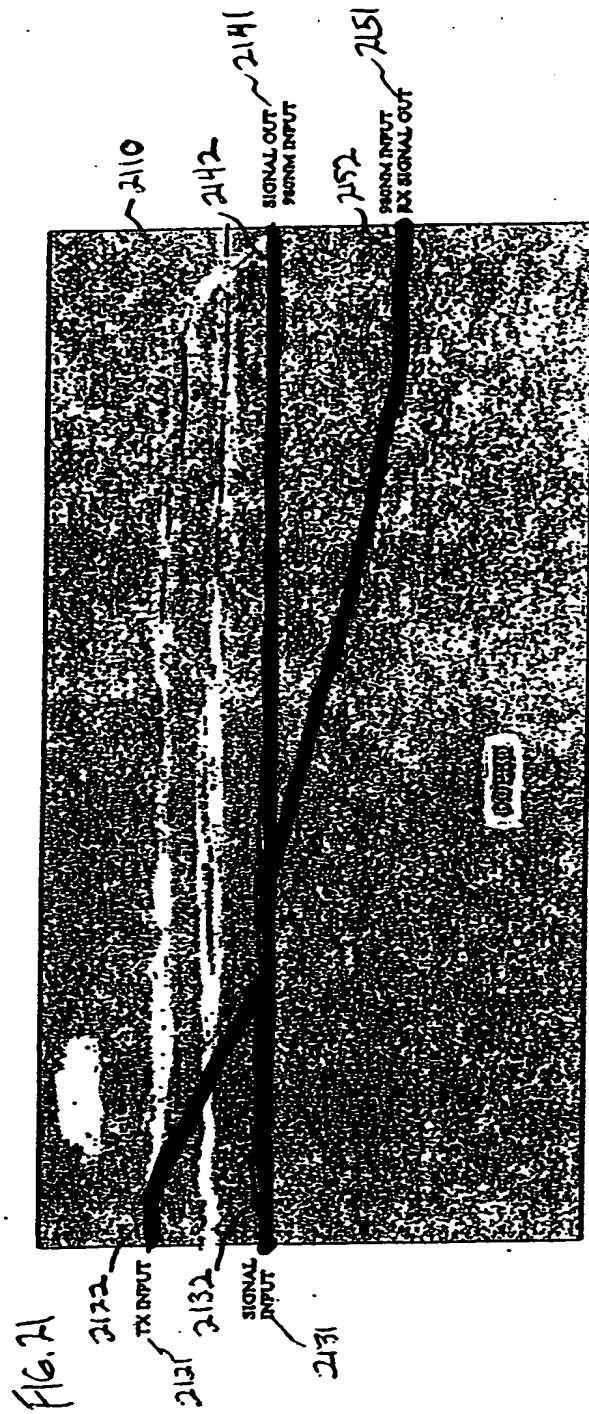


Fig. 16

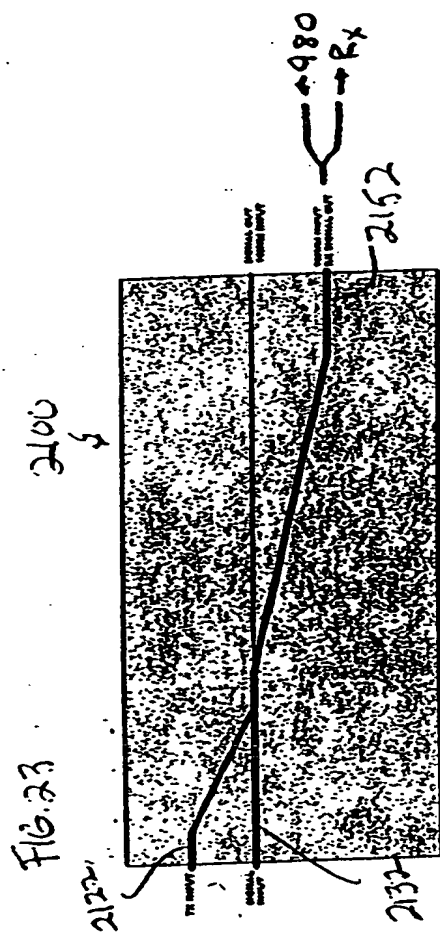




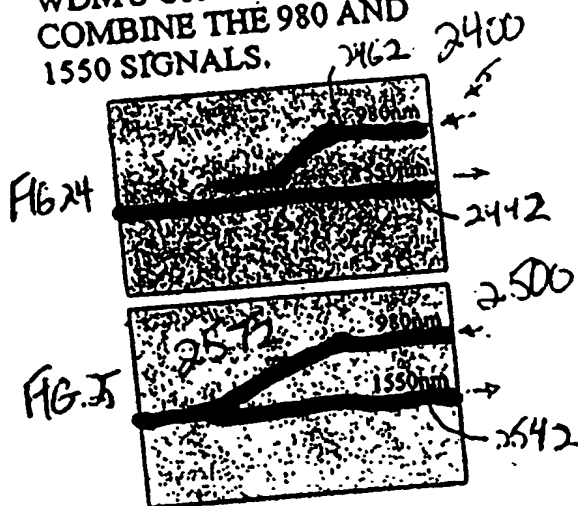
ADD/DROP NODE WITH AMPLIFICATION



USES BOTH THE ATTENUATION AND AMPLIFICATION CHARACTERISTICS OF RARE-EARTH-DOPED GLASS TO ROUTE THE SIGNAL.



BOTH THE OUTPUT AND
RX OUT COULD HAVE
WDM'S OR SPLITTERS TO
COMBINE THE 980 AND
1550 SIGNALS.



205020 2015660

2600

ADD/DROP NODE WITH AMPLIFICATION

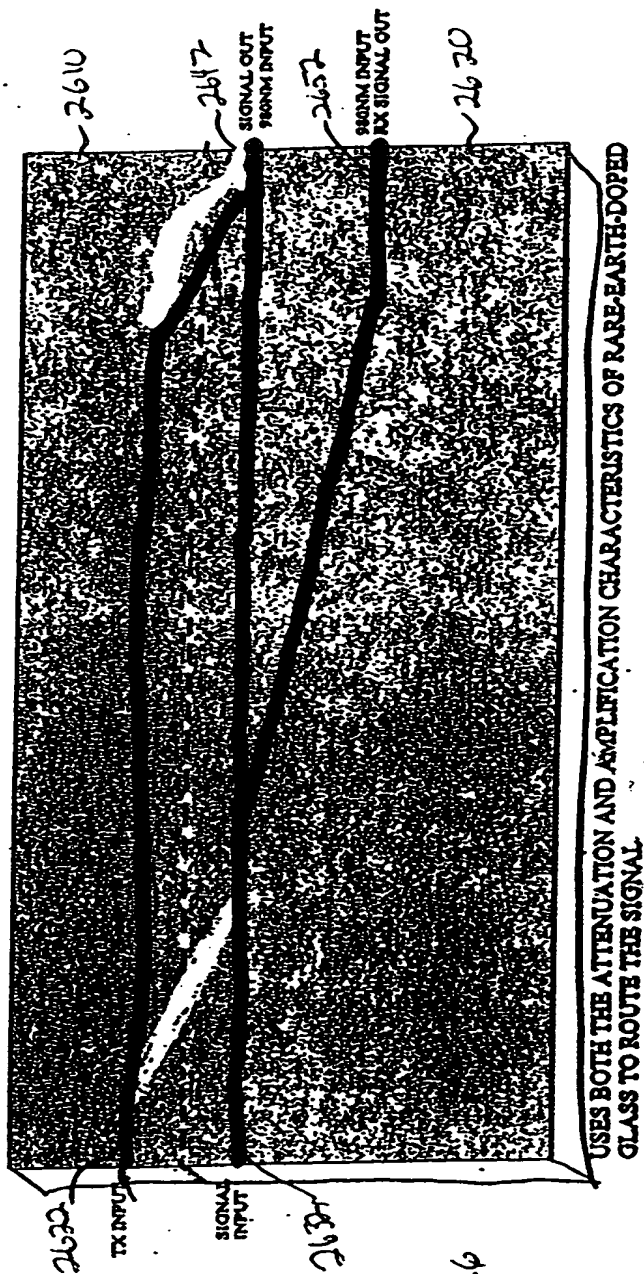
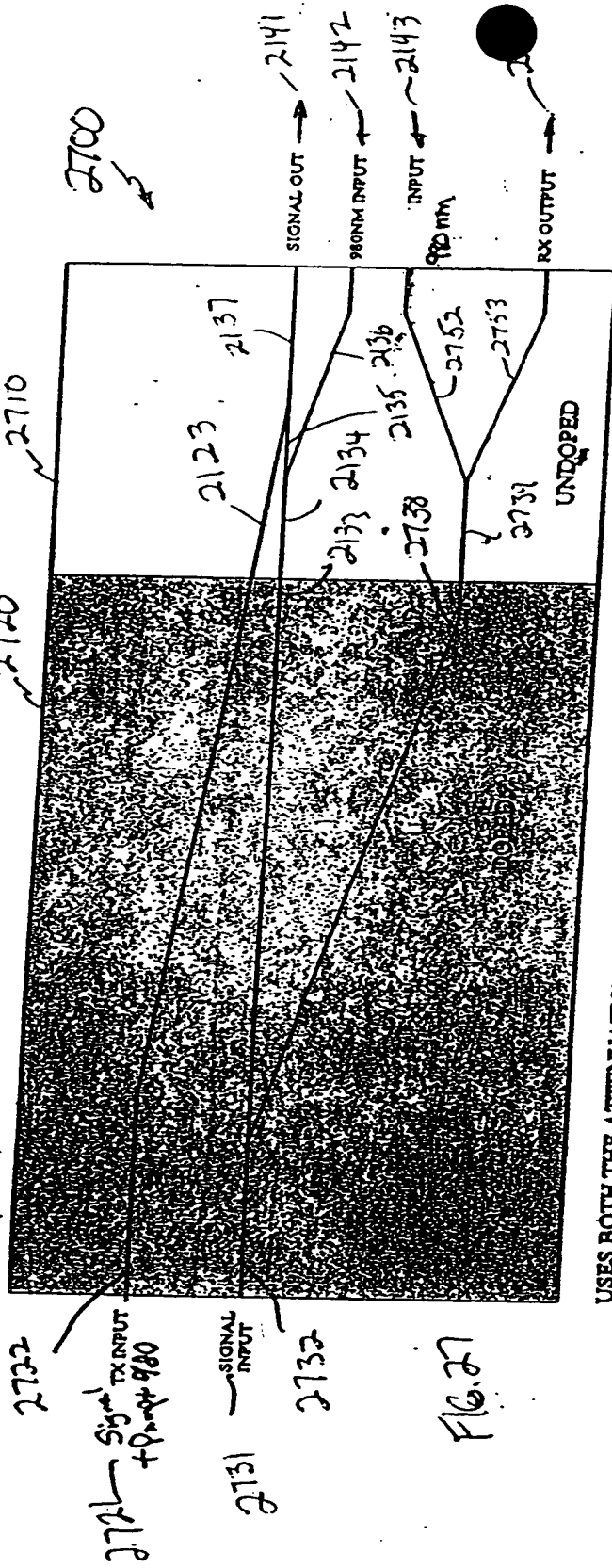


FIG. 26

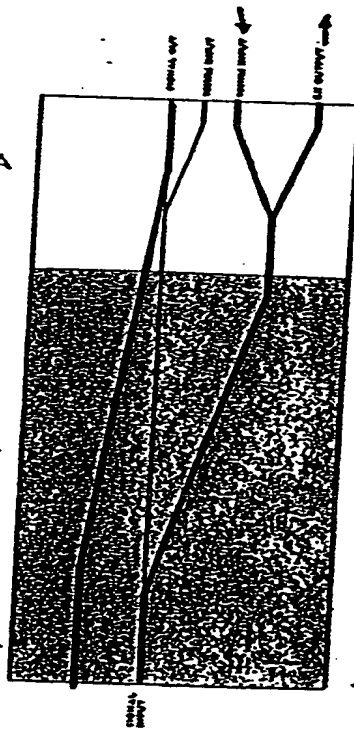
ADD/DROP NODE WITH AMPLIFICATION



USES BOTH THE ATTENUATION AND AMPLIFICATION CHARACTERISTICS OF RARE-EARTH-DOPED GLASS TO ROUTE THE SIGNAL.

FIG. 24

2706



ATTENUATED PASSTHROUGH AND NEW
SIGNAL INJECTED

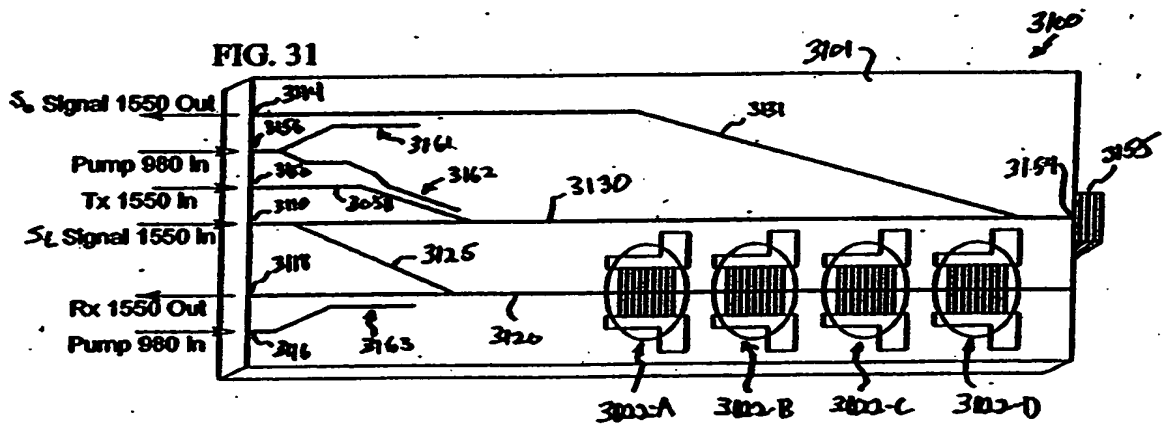
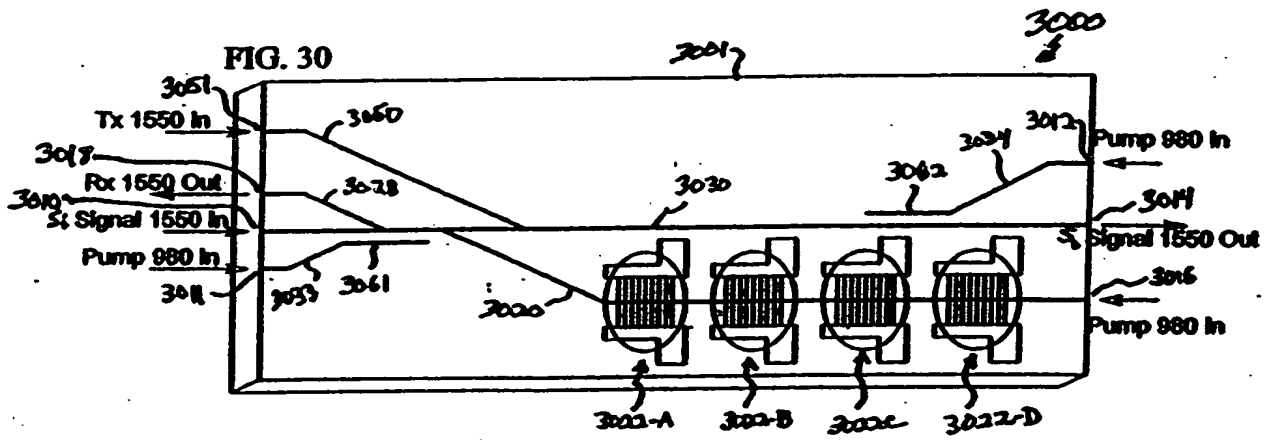
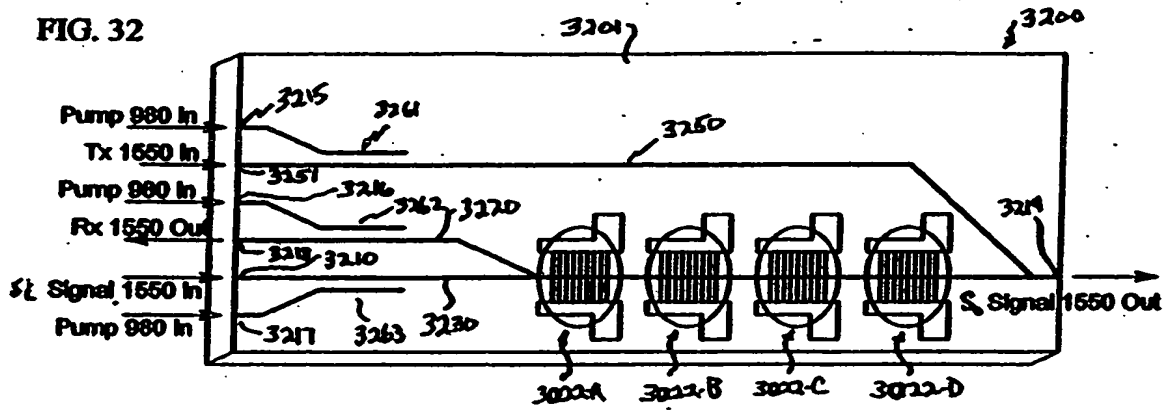


FIG. 32



205060-20150600

20250607 205600

